

PATENT ABSTRACTS OF JAPAN

(11)Publication number : **2000-165258**

(43)Date of publication of application : **16.06.2000**

(51)Int.Cl. **H03M 13/00**

H03M 13/27

H04J 3/00

(21)Application number : **10-336648**

(71)Applicant : **YRP IDO TSUSHIN KIBAN GIJUTSU
KENKYUSHO:KK
TOSHIBA CORP**

(22)Date of filing : **27.11.1998**

(72)Inventor : **YAMAZAKI SHOICHIRO**

(54) **DECODER**

(57)Abstract:

PROBLEM TO BE SOLVED: To attain efficient and highly reliable decoding for multimedia information.

SOLUTION: Channel encoders C-Enc1, C-Enc2 respectively apply channel encoding to 1st and 2nd information requiring different communication quality, the resultant set of information is multiplexed, and a channel encoder C-Enc0 applies channel encoding to the multiplexed information and the result is transmitted. A channel decoder C-Dec0 of a soft discrimination input soft discrimination output configuration at a receiver side applies channel decoding to the received information, a demultiplexer DMux demultiplexes the information into signals corresponding to the respective information set, and corresponding channel decoders C-Dec1, C-Dec2 apply channel decoding to the information sets. In this case, an output likelihood of the C-Dec0 is given to the channel decodes C-Dec1, C-Dec2 as an input likelihood. Furthermore, the output likelihood of the channel decoders C-Dec1, C-Dec2 is given to the decoder C-Dec0 as the input likelihood so as to conduct repetitive decoding.